

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/751,455	01/06/2004	Larry Dancey	3343-23	2360	
23117	7590 03/14/2006		EXAMINER		
NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR			PHAM, MINH CHAU THI		
ARLINGTON, VA 22203		Look	ART UNIT	PAPER NUMBER	
	•		1724		

DATE MAILED: 03/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

				\sim
		Application No.	Applicant(s)	
		10/751,455	DANCEY ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Minh-Chau T. Pham	1724	
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address	;
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Poeriod for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be the strong and will expire SIX (6) MONTHS from the application to become ABANDON	DN. imely filed m the mailing date of this communi ED (35 U.S.C. § 133).	
Status				
	Responsive to communication(s) filed on This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pr		its is
Dispositi	on of Claims			
5)□ 6)⊠ 7)□	Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-44 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.		·
Applicati	on Papers			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is ol	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.1	
Priority u	ınder 35 U.S.C. § 119		·	
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Applicative documents have been received (PCT Rule 17.2(a)).	tion No ved in this National Stage	Э
			• (X)	
Attachmen	• •			
2) 🔲 Notic 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 1/6/04.	4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal 6) Other:		

Art Unit: 1724

Specification

The abstract of the disclosure is objected to because legal phraseology "comprises" and "comprising" are used in the Abstract. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 8-13, 19-27, 31, 34-37 and 40-44 are rejected under 35 U.S.C. 102(b) as being anticipated by Eller et al (5,004,483).

Eller et al teach a method of controlling relative humidity of inside an enclosed space (10) comprising the step of drawing outside air to the enclosed space to create an air stream discharging into the enclosed space (col. 7, lines 20-21 and line 68 through col. 8, line 2), sensing the relative humidity of the air in at least one sensing location (col. 8, lines 28-38, col. 9, lines 60-67), means for controlling relative humidity and temperature to maintain a desired relative humidity (col. 8, lines 35-37). Eller et al further teach the step of maintaining the desired relative humidity by raising the temperature (col. 9, lines 6-14).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Application/Control Number: 10/751,455

Art Unit: 1724

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 6, 14-16, 28, 29 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eller et al (5,004,483), in view of Vross et al (6,022,389).

Claims 6, 14-16, 28, 29 and 32 call for a filtering unit with multiple filtering layers including an HEPA. Vross et al disclose a filtering unit comprising an HEPA filter (48), a carbon filter (49, and a granular activated carbon filter (51) (col. 5, lines 20-34). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to adopt a plurality of filtering layers including an HEPA filter as taught by Vross et al in the apparatus of Eller et al since multiple filtering layers would enhance the filtration efficiency in removing all arrays of contaminants from the air stream passing through.

Claims 7, 17, 18, 30, 33, 38 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eller et al (5,004,483), in view of LaFerriere et al (2004/0020363 A1).

Art Unit: 1724

Claims 7, 17, 18, 30, 33, 38 and 39 call for an UV light to kill microorganisms in the air stream. LaFerriere et al disclose an air cleaner with multiple filtering layers (50, 70, paragraphs 0050 and 0051) with an UV light (60) where the UV light can kill microorganisms in the air stream passing through. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide an UV light as taught by LaFerriere et al in the filtering apparatus of Eller et al since the UV light would sterilize the filter medium by killing microorganisms in the air passing through.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Chau T. Pham whose telephone number is (571) 272-1163. The examiner can normally be reached on Mon/Tues/Thur/Fri 7:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 1724

Minh-Chau Pham Patent Examiner

Art Unit: 1724 March 10, 2006